"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOV, A. G. (Veterinarian)

"Advantages of the fight against cavitary ? gadfly of sheep by the method of hand picking."

SO: Veterinariia 24 (1), 1947, p. 41

Veterinarian of the Karakul-breeding sovkhoz "Kzyl-Charvodar," Uzbek SSR

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

NYMM, E.M. [Nomm, E.]; SAPOGOV, A.G.; SAPAROV, S.; SHAKHMARDANOV, Z.A., kand.veter.nauk; GRITSENYUK, N.

Throughout the Soviet Union. Veterinariia 37 no.1:94-96 Ja '60. (MIRA 16:6)

(Veterinary medicine) (Kovalev, Saveli Leonovich, 1911-1959)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SHESTAK, S.S., nauchnyy sotrudnik; KORENEV, G.P.; KORENEVA, T.A.; SAPOGOV, A.G., nauchnyy sotrudnik

Use of SZHK (pregnant mare's serum). Veterinariia 37 no.1:10-12 Ja '60. (MIRA 16:6)

1. Orenburgskaya nauchno-issledovatel'skaya veterinarnaya stantsiya (for Shestak). 2. Direktor Simferopol'skoy mezhsovkhoznoy laboratorii (for Korenev). 3. Simferopol'skaya mezhsovkhoznaya laboratoriya (for Koreneva). 4. Turkmenskaya NIIZhV (for Sapogov).
(Serum therapy) (Veterinary medicine)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOV, B.K., mashinist

Improvement of the spring suspension system of a TE7 diesel locomotive. Elek. i tepl. tiaga 4 no. 12:10 D '60. (MIRA 14:1)

1. Depo Leningrad-Passazhirskiy-Moskovskiy Oktyabr'skoy dorogi.
(Diesel locomotives)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOV, M.L., inzh.

Installation of 200 Mw. blocks in the Lugansk State Regional Electric Power Plant. Energ. stroi. no.38:54-60 '64. (MIRA 17:10)

1. Trest "Teploenergomontazh."

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOV, M. S.

PA 55/49T57

USSR/Mathematics Dec 48
Logarithms
Probability

"Principle of Double Logarithms for Dependent Quantities," N. A. Sapogov, 3½ pp

"Dok Ak Nauk SSSR" Vol LXIII, No 5

Principle of double logarithms for dependent chance quantities is demonstrated in its basic outlines by an appropriate version of A. N. Kolmogorov's proof of the same principle for independent quantities and the author's previous articles. Submitted by Acad S. N. Bernsteyn 19 Oct 48.

55/49T57

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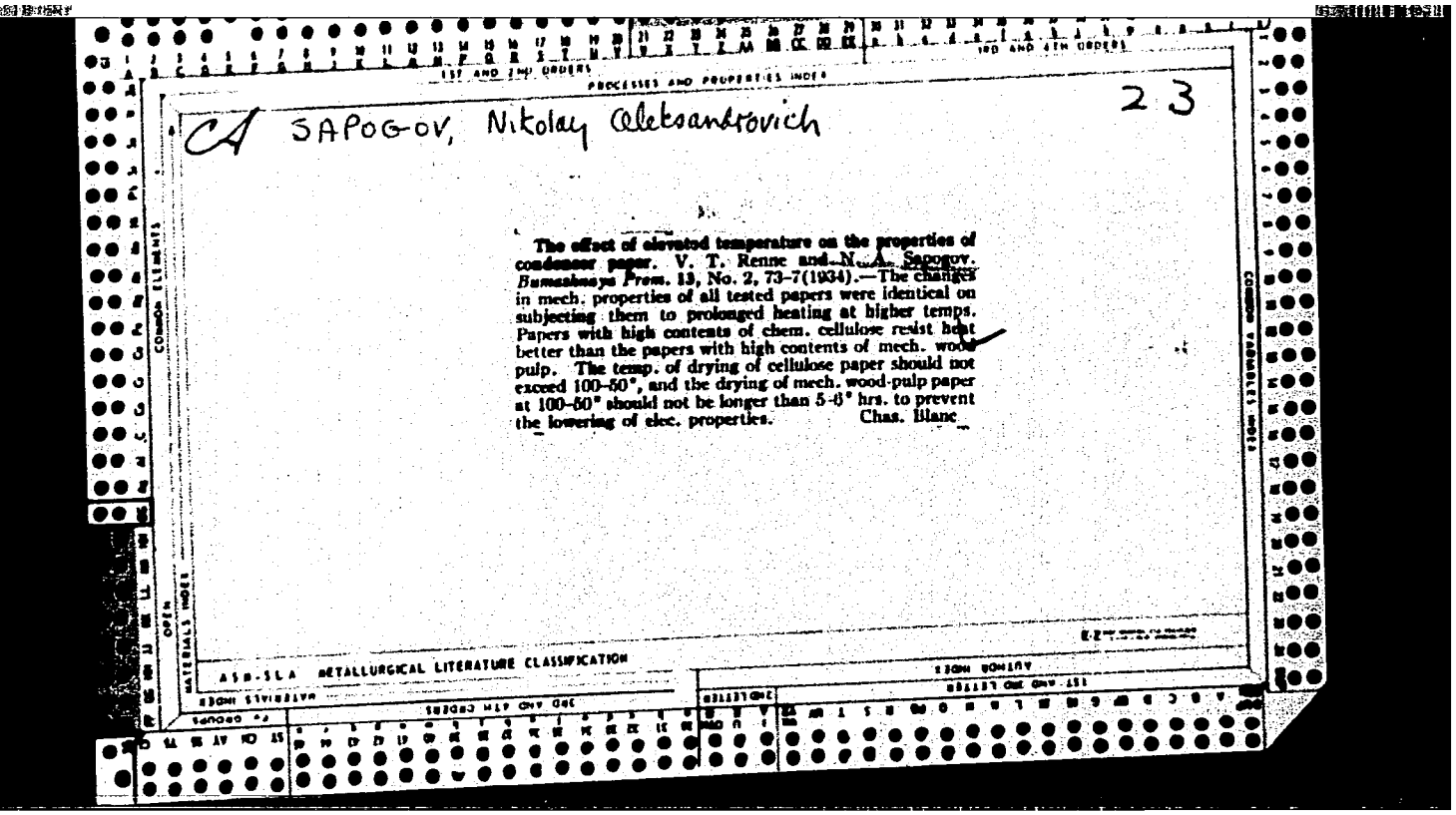

CA SAPOGOV, Nikolay Aleksandrovich

23

The effect of elevated temperature on the properties of condenser paper. V. T. Renne and N. A. Sapogov. *Bumazhnaya Prom.* 13, No. 2, 73–7(1934).—The changes in mech. properties of all tested papers were identical on subjecting them to prolonged heating at higher temps. Papers with high contents of chem. cellulose resist heat better than the papers with high contents of mech. wood pulp. The temp. of drying of cellulose paper should not exceed 100–50°, and the drying of mech. wood-pulp paper at 100–50° should not be longer than 5–6° hrs. to prevent the lowering of elec. properties. Chas. Blanc

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

Sapogov, N. Meilleure approximation d'une fonction ayant une singularité critique réelle sur l'ellipse de convergence [illegible]

[illegible] Mathematical Reviews [illegible], Vol. [illegible], No. [illegible]

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOV, N.A.

Liapunov's limit theorem for sums of random variables forming a Markov chain. Vest. LGU 2 no.3:137-141 Mr '47. (MIRA 12:9)

(Chains (Mathematics))

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOV, N. A.

Sapogov, N. A. On singular Markov chains. Doklady Akad. Nauk SSSR (N.S.) 58, 193–196 (1947). (Russian)

Let $x_1, \ldots, x_n$ be the random variables of a Markov chain. It is supposed that the x_i's only take on the values ± 1 and that p_i' (p_i'') is the probability that $x_{i+1}=1$ if $x_i=1$ (-1). Then if $s_n=\sum_1^n x_i$, Bernstein [Dokiady Akad. Nauk SSSR (N.S.) 1928, 55–60] proved that s_n is subject to the central limit theorem if $n^{-\alpha}<p_i'$, $p_i''<1-n^{-\alpha}$, $i=1, \ldots, n$, where $\alpha<\frac{1}{2}$ is a constant. The author proves, using Bernstein's method, that the result is still true if $n^{-\alpha}$ is replaced in the above condition by $\varphi(n)/n$ where $\varphi(n)$ is monotone increasing and becomes infinite with n.

J. L. Doob (Urbana, Ill.)

Source: Mathematical Reviews, Vol. 9 No. 6

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOV, N.A.

Sapogov, N. A. The Laplace-Lyapunov limit theorem for singular Markov chains. Doklady Akad. Nauk SSSR (N.S.) 58, 1905–1908 (1947). (Russian)

Let x_n be the variable of a Markov process with possible values $a_1^{(n)}, \cdots, a_{k_n}^{(n)}$, where k_n is finite. It is assumed (1) that $\xi_n = \sum a_j^{(n)} k_n$ and $d_n^2 = \sum (a_j^{(n)} - \xi_n)^2 k_n$ are finite and $d_n > d > 0$, (2) the transition probabilities depend on n but $p_{ij}^{(n)} > l > 0$ for $n \geq k_n$, with a constant $0 < l < 1$. If one has $E(x_n - \xi_n) = 0$ and the higher moments have bounds independent of n, then the central limit theorem holds for the sums $s_n = x_1 + \cdots + x_n$. It is shown in a few lines that this follows from S. Bernstein's now classical proof of the central limit theorem for independent variables. A similar statement holds if the x_n [illegible] finite [illegible] the [illegible] density of transition probabilities $\varphi_n(x, y)$ satisfies an inequality $\varphi_n(x, y) \geqq l \cdot n^{\alpha} L_n$, where $L_n = \delta_n - a_n > L > 0$.

W. Feller (Ithaca, N. Y.)

Mathematical Reviews Vol. 9, No. 1

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOV, N. A.

Sapogov, N. A. On sums of dependent random variables. Doklady Akad Nauk SSSR (N.S.) 63, 353-356 (1948). (Russian)

The author finds upper limits to the error in Bernstein's version of the central limit theorem for dependent random variables [Math. Ann. 97, 1-59 (1926)]. J. L. Doob

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

Sapogov, N. A. On the law of the iterated logarithm for dependent variables. Doklady Akad. Nauk SSSR (N.S.) **63**, 487–490 (1948). (Russian)

The author shows that under Bernstein's conditions for the validity of the central limit theorem for dependent random variables [Math. Ann. **97**, 59 (1926), § 10] the law of the iterated logarithm also holds. He uses a form of the central limit theorem with error estimate found by him in an earlier paper [same Doklady (N.S.) **63**, 353–356 (1948); these Rev. **10**, 310]. *J. L. Doob.*

Source: Mathematical Reviews, [illegible] 10 No. 6

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

Sapogov, N.A.

Sapogov, N. A. An integral limit theorem for multidimensional Markov chains. Uspehi Matem. Nauk (N.S.) 4, no. 4(32), 190–192 (1949). (Russian)

The author states conditions under which the central limit theorem is valid for a sequence of random variables $X_1, X_2, \cdots$ forming a Markov chain. The chain is of a very general nature: X_m is a vector-valued random variable which can assume k_m values, and the transition probabilities from X_m to X_{m+1} depend on m. The conditions are that the mth transition probabilities are bounded below by a constant multiple of $1/k_m$, that X_m are bounded uniformly in m, and that the X_m's are not too near to be identically constant, in a sense made precise in the paper. Various specializations are made. *J. L. Doob* (Ithaca, N. Y.)

[illegible] Reviews, Vol. [illegible] No. [illegible]

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

Sapogov, N. A.

200

Sapogov, N. A. On the strong law of large numbers. ~~Uspehi Matem.~~ Nauk (N.S.) **4**, no. 4(32), 194–195 (1949). (Russian)

The author generalizes Kolmogorov's version of the strong law of large numbers for mutually independent random variables, expressed in terms of variances by dropping the hypothesis of [illegible] and replacing it by appropriate bounds on the relevant conditional [illegible]

Source: Mathematical Reviews. Vol. 11 3

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

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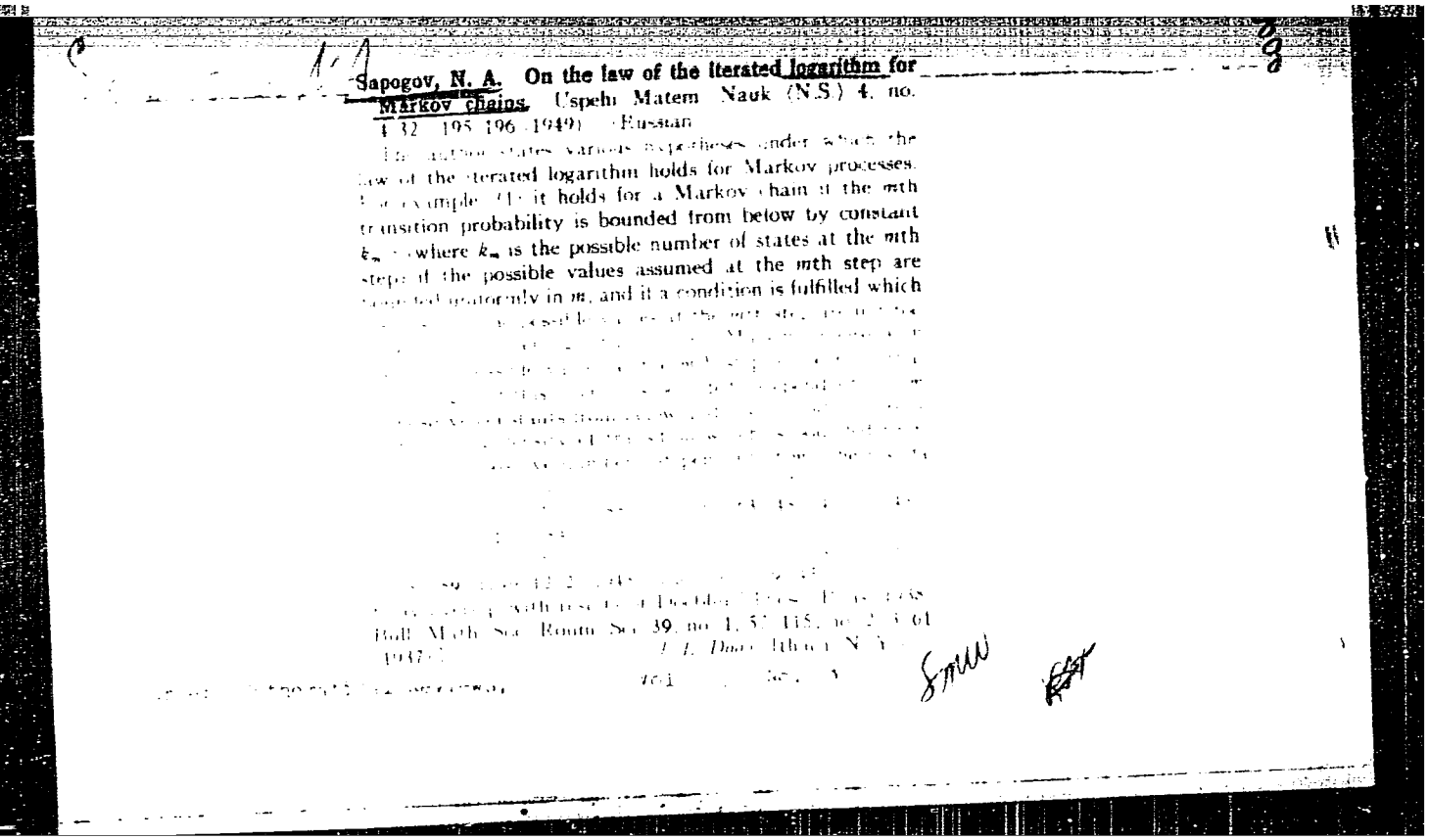

Sapogov, N. A. On the law of the iterated logarithm for Markov chains. (Russian) Uspehi Matem. Nauk (N.S.) 4, no. 4(32), 195–196 (1949).

The author states various hypotheses under which the law of the iterated logarithm holds for Markov processes. For example (1) it holds for a Markov chain if the mth transition probability is bounded from below by constant k_m, where k_m is the possible number of states at the mth step if the possible values assumed at the mth step are equivalent uniformly in m, and if a condition is fulfilled which

[illegible] Bull. Math. Soc. Roum. Sci. 39, no. 1, 57–115, no. 2, 3–61 (1947).

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOV, N.A.

24737. SAPAGOV, N.A. Dvumernaua Predel'naya Tedrema Dlya Dvumernoy Tsepi.

Izvestiya Akad Nauk Ssar, Seriya Matem., 1949, No. 4, S. 301-14--Bibliogr: 5 Nazv.

SO: Letopis' No. 33, 1949

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOV, N.A. i. LINNIK, YU V.

28196

Ob intyegralbnom i lokalbnom zakonakh dlya mnogomyernoy nyeodnorodnoy tsyepi markova - V. o-l. 2 - Y avt: a.n. Sapogov. Doklady akad. nauk UzSSR, 1949 No. 6, s. 7-10-Ryezyumye na u-byek-Yaz. - Bibliogr: 5 nazv.

SO. LETOPIS NO. 34

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOV, N.A.

60/49T52

USSR/Mathematics
Probability Jul/Aug 49

"A Two-Dimensional Boundary Theorem for a Two-Dimensional Chain," N. A. Sapogov, 14 pp

"Iz Ak Nauk SSSR, Ser Matemat" Vol XIII, No 4

Consideration of a stochastic arrangement which is a two-dimensional analogue of Markov's simple chain. Establishes the applicability of the two-dimensional boundary theorem to two sums of chance values forming a two-dimensional chain and makes an assumption relative to the probabilities of transition which permits their approximation as close to zero and one as is necessary. Submitted 22 Nov 47.

60/49T52

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

Linnik, Yu. V., and Sapogov, N. A. Multiple integrals and local laws for inhomogeneous Markov chains. Izvestiya Akad. Nauk SSSR. Ser. Mat. 13, 533–566 (1949). (Russian)

In the first part of the paper Sapogov proves the central limit theorem for a sequence of k-dimensional vectors whose values depend on the states of a discrete Markov chain. The number of states is supposed to be finite, but may vary with time. Various uniformity conditions are imposed on the transition probabilities so that S. Bernstein's classical results can be used. [The essential part of the results was announced in Uspehi Matem. Nauk (N.S.) 4, no. 4(32), 190–192 (1949); these Rev. 11, 189. Cf. also Doklady Akad. Nauk SSSR (N.S.) 58, 193–196, 1905–1908 (1947); these Rev. 9, 293, 361.] In the second part Linnik considers a Markov chain with $k+1$ states $e_0, e_1, \cdots, e_k$, and stationary transition probabilities. For $1 \leq r \leq k$ let $N_r(n)$ be the number of passages during the first n trials through e_r. It is supposed that the chain belongs to the type A of Doeblin's classification which means essentially that the variance of each $N_r(n)$ tends to infinity together with n. It is shown that the joint distribution of $N_r(n)$ is asymptotically normal. The proof is exceedingly complicated and depends on intricate estimates.

W. Feller (Princeton, N. J.)

Source: Mathematical Reviews, 1950 Vol 11 No. 8

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOV, N. A.

33019

OB odnoy Predel,noy teoreme doklady Akad. Nauk Sssr, Novaya seriya, T, lxix, No 1, 1949, c. 15-18

SO: Letopis' Zhurnal'nykh Statey, Vol. 45, Moskva, 1949

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

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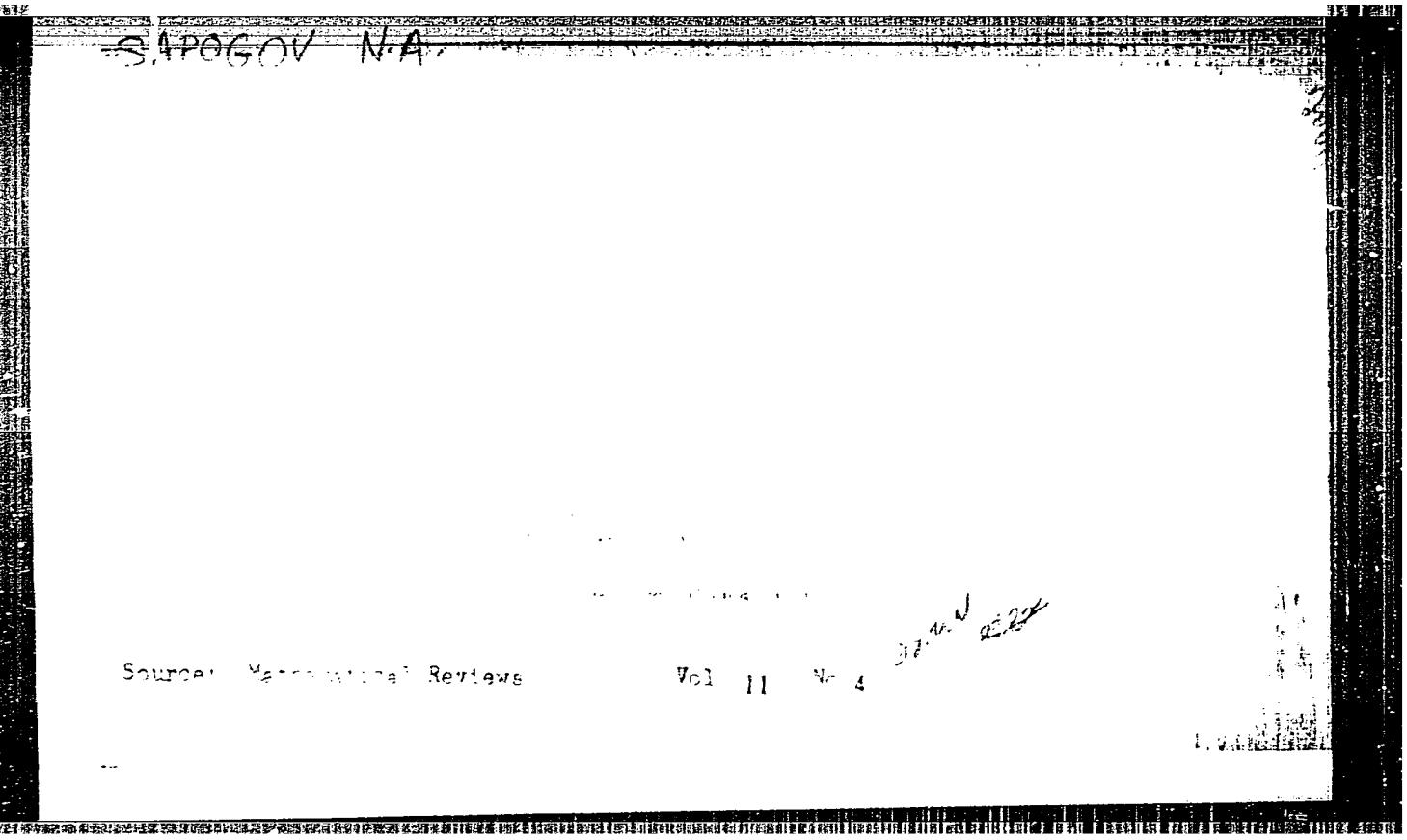

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

Sapogov, N. A. On the law of large numbers for dependent random variables. Izvestiya Akad. Nauk SSSR. Ser. Mat. 14. 145–154 (1950). (Russian)

Consider a triangular array of random variables X_{n}. The [illegible] the weak law of large numbers applies [illegible]

Source: Mathematical Reviews, 1950 Vol 11 No. 8

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

Sapogov, N. A.

Sapogov, N. A. Law of the iterated logarithm for sums of

that those imposed by Doeblin [Publ. Fac. Sci. Univ.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

Sapogov, N. A. General form of a limit theorem for independent random vectors. Doklady Akad. Nauk SSSR (N.S.) 70, 765–768 (1950). (Russian)

The author extends the standard necessary and sufficient conditions for the validity of the central limit theorem (for sums of mutually independent random variables) to vector-valued random variables. *J. L. Doob* (Ithaca, N. Y.)

Source: Mathematical Reviews, 195[illegible] Vol [illegible] No. [illegible]

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

Sapogov, N.A.

Sapogov, N. A. On a property of the Gaussian distribution. Doklady Akad. Nauk SSSR (N.S.) 73, 461–462 (1950). (Russian)

A proof of the following theorem is sketched. Suppose that the distribution function F of the sum of two mutually independent random variables satisfies the inequality $|F(x)-\Phi(x)|<\epsilon<1$ for all x, where Φ is the normal distribution function with mean 0 and variance 1. Let F_1 be the distribution function of either summand and suppose that $a_1=\int_{-N}^{N}x\,dF(x)$ and that $\sigma_1^2=\int_{-N}^{N}x^2\,dF_1(x)-a_1^2>0$, where $N=(\log 1/\epsilon)^{\frac{1}{3}}$. Then there is an absolute constant C for which $|F_1(x)-\Phi((x-a_1)/\sigma_1)|<C\sigma_1^{-4/7}(\log 1/\epsilon)^{-1/7}$ for all x. This theorem generalizes Cramér's theorem [Math. Z. 41, 405–414 (1936)] that, if the sum of two mutually independent random variables is normally distributed, each summand also has this property. *J. L. Doob.*

Mathematical Reviews, Vol 12, No. 3

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOV, N. A.

"Some Problems in the Theory of Dependent and Multidimensional Chance Quantities." Sub 14 Jun 51, Mathematics Inst imeni V. A. Steklov, Acad Sci USSR.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOV, N. A.

Sapogov, N. A. On an inequality of Čebyšev. Uspehi Matem. Nauk (N.S.) 6, no. 2(42), 157–159 (1951). (Russian)

The inequality of Čebyšev,

$$(*) \qquad \int_a^b u(x)v(x)dx \cdot \frac{1}{b-a}\int_a^b dx \leq \int_a^b u(x)dx \int_a^b v(t)dt,$$

holds for nonde reasing real functions $u(x), v(x)$; it has been generalized on various occasions (for example by F. Franklin [Amer. J. Math. 7, 377–379 (1885)]), as noted by the author. There are now given still wider generalizations, as suggested by the following simple proof: There is clearly a value c, $a \leqq c \leqq b$, such that the function

$$Q(x) = v(x) \int_a^b dt - \int_a^b v(t)dt$$

changes ... $Q(x) \leq 0$ for $a \leq x \leq c$, $Q(x) \geq 0$ for $c \leq x \leq b$; hence

$$\int_a^b u(x)Q(x)dx \leq u(c)\int_a^b Q(x)dx = 0,$$

from which ... follows. It is shown, for instance, that for integrable real functions u, v as defined on a set E, if e denotes the part of E for which

$$\int_E v\,d\mu - v(e)\int_E d\mu > 0,$$

and if $u(x') \geq u(x'')$ for all x' in e and all x'' in E, then

$$\cdots \int_E w(x)d\mu \int_E u(x)v(x)d\mu > \int_E v\,d\mu \int_E u(x)w(x)d\mu.$$

A more immediate generalization of (*) is the special case $w \equiv 1$. Again, an inequality of Jensen [Bull. Sci. Math. (2) **12**, 134–135 (1888)],

$$\sum u_i \cdot \sum v_i u_i \cdot \sum w_i \leq \sum u_i v_i \cdot \sum w_i,$$

for $3n$ positive quantities satisfying $u_1 \geqq u_2 \geqq \cdots$ and $v_1/w_1 \geqq v_2/w_2 \geqq \cdots$, is contained therein.

L. F. Beckenbach (Princeton, N. J.).

Source: Mathematical Reviews, Vol ... No. 3

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOV, N. A.

USSR/Mathematics - Probability May/Jun 51

"Problem of Stability for Cramer's Theorem," N. A. Sapogov

"Iz Ak Nauk SSSR, Ser Matemat" Vol XV, No 3, pp 205-218

Proves that each of the chance (stochastic) quantities X_1 and X_2, whose sum is approximately distributed normally while admitting of definite form of interconnection, also approximately obeys the normal law. Evaluates deg of this approximation. Submitted by Acad S. N. Bernshteyn 24 Apr 50

186T49

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOV, N.A.

USSR/Mathematics - Statistics FD-1175

Card 1/1 Pub. 118-16/30

Author : Sapogov, N. A.

Title : Mutual distribution of lines of regression

Periodical : Usp. mat. nauk, 9, No 3(61), 187-192, Jul-Sep 1954

Abstract : The author establishes for the first time some new results, demonstrated in an elementary way, on the mutual distribution of regression lines. He then discusses the results of O. V. Sarmanov on lines of regression for correlation formed by two chance quantities X and Y, demonstrated by means of the theory of integral equations. The author frees O. V. Sarmanov's proof of the theory of integral equations. Four references, all USSR (all articles by O. V. Sarmanov in Doklady Akad. Nauk SSSR, 1948-1952).

Institution :

Submitted : November 6, 1953

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOV, N.A

Sapogov, N. A. The problem of stability for a theorem of Cramér's. Vestnik Leningrad. Univ. 10 (1955), no. 11, 61–64. (Russian)

Let X_1, X_2 be independent random variables with sum X. Let X have distribution function F, suppose that X_1 has median 0, and suppose that $\sup_x |F(x)-\Phi(x)| \leqq \varepsilon < 1$, where Φ is the normal distribution function of mean 0 and variance 1. Then

$$\sup_x \left| F_1(x) - \Phi\left(\frac{x-a_1}{\sigma_1}\right) \right| < \frac{C}{\sigma_1^3 (\ln \varepsilon^{-1})^{\frac{1}{3}}}.$$

Here C is an absolute constant, a_1 and σ_1^2 are the mean and variance of X_1 after X_1 is replaced by 0 for values of the modulus $\geqq N$, where N depends on ε, and it is supposed that $\sigma_1 \neq 0$. This result, whose proof is sketched, improves a previous generalization of the Cramér theorem by the author [Izv. Akad. Nauk SSSR. Ser. Mat. 15 (1951), 205–218; MR 13, 51]. If the random variables are n-dimensional vector-valued, the following weaker result is stated. If R is an n-dimensional interval with edges parallel to the coordinate axes, suppose that

$$\sup_R |P\{X \in R\} - G(R)| \leqq \varepsilon < 1,$$

where G is some non-degenerate normal distribution. Then, if X_1 has a non-degenerate distribution, there is a normal distribution G_1, satisfying

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

Sapogov, N. A.

$$\sup_R |P\{X_1 \in R\} - G_1(R)| \leqq C\left(\ln \ln \frac{1}{\varepsilon}\right)\left(\ln \frac{1}{\varepsilon}\right)^{-1/(n+1)}.$$

Here C is a measure of the non-degeneracy of X_1.

J. L. Doob (Urbana, Ill.).

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOV, N A

SUBJECT USSR/MATHEMATICS/Theory of approximations CARD 1/2 PG - 454
AUTHOR SAPOGOV N.A.
TITLE On the best approximation of analytic functions of several variables and on polynomial series.
PERIODICAL Mat.Sbornik, n. Ser. 38, 331-336 (1956)
reviewed 12/1956

The following generalization of a theorem due to Bernštejn is proved: In order that the function $f(z_1,\dots,z_k)$ is regular in all inner points of the elliptic polycylinder $C_R\left[\left|z_i+\sqrt{z_i^2-1}\right|\leq R,\ i=1,2,\dots k\right]$ and in order that it possesses singularities in the points in which each coordinate z_i belongs to the boundary of the corresponding ellipse $C_R^{(i)}\left[\left|z_i+\sqrt{z_i^2-1}\right|=R,\ 1\leq i\leq k\right]$, it is necessary and sufficient that

$$\lim_{n\to\infty}\sqrt[n]{E_n[f]}=\frac{1}{R},\qquad E_n[f]=\inf_{P_n}\max_{\substack{-1\leq x_i\leq 1\\ 1\leq i\leq k}}|f-P_n|.$$

The proof bases on the following lemma: Let the polynomials $P_n(x_1,\dots x_n)$ of

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Mat. Sbornik, n. Ser. 38, 331-336 (1956) CARD 2/2 PG - 454

degree n be bounded for all n at $-1 \leq x_i \leq +1$ $(i=1,2,\ldots k)$: $|P_n| \leq L$. Then inside of C_R holds: $\overline{\lim_{n\to\infty}} \sqrt[n]{|P_n(z_1 \ldots z_k)|} \leq R$. A similar inequation of Bernštejn is used to prove a similar theorem on polynomial series.

INSTITUTION: Leningrad.

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16(1),16(2)

AUTHOR: Sapogov,N.A.

SOV/43-59-19-8/14

TITLE: On Independent Random Variables the Sum of Which is Approximately Normal

PERIODICAL: Vestnik Leningradskogo universiteta, Seriya matematiki, mekhaniki i astronomii, 1959, Nr 19(4), pp 78-105 (USSR)

ABSTRACT: Theorem 1: Let $X_i = (X_i^1,\ldots,X_i^n)$, i=1,2, be independent random vectors, where zero is a median of every component X_1^k, $1\leqslant k\leqslant n$; $X = X_1 + X_2$. Let $\overline{X} = (\overline{X}^1,\ldots,\overline{X}^n)$ be a normally distributed vector for which

$$M\overline{X}^k = 0,\ 1\leqslant k\leqslant n;\ \min_{|t|=1} D\left(\sum_{i=1}^{n} t^i \overline{X}^i\right) \geqslant \sigma > 0 .$$

Let $\sup_I |P_X(I) - P_{\overline{X}}(I)| \leqslant \varepsilon$, where $0<\varepsilon<1$ and sup is taken over all right parallelepipeds I the edges of which are parallel to the axes; $P_Z(S) = P\{Z \in S\}$. Then

$$(13.3)\quad \sup_I |P_{X_1}(I) - P_{\overline{X}_1}(I)| < C \frac{\left[\ln \ln(\frac{1}{\varepsilon}+2)\right]^{\frac{3}{2}n-1}}{\sigma_1^3 (\ln \frac{1}{\varepsilon})^{1/2}} .$$

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On Independent Random Variables the Sum of Which is Approximately Normal SOV/43-59-19-8/14

Here $C = C(n, \sigma)$ is a constant, $\overline{X}_1 = (\overline{X}_1^1, \ldots, \overline{X}_1^n)$ is a normally distributed vector with $M\overline{X}_1^k = MX_1^{*k}$; $M(\overline{X}_1^k \cdot \overline{X}_1^l) = M(X_1^{*k} \cdot X_1^{*l})$; $1 \leqslant k, l \leqslant n$, $\sigma_1'^2 = \min_{|t|=1} D\left(\sum_{i=1}^{n} t^i X_1^{*i}\right) > 0$, while $X_1^* = (X_1^{*1}, \ldots, X_1^{*n})$ is an auxiliary vector defined as follows: for every $k=1,2,\ldots,n$ we have

$X_1^{k*} = X_1^k$ if $|X_1^k| \leqslant N$ $\qquad N = \sqrt{2 \ln \frac{1}{\varepsilon}} + 1$.

$X_1^{k*} = 0$ if $|X_1^k| > N$

Theorem 2 shows that in the case n=1 the right hand side of (13.3) has to be replaced by

$$C \sigma_1^{-3} \left(\ln \frac{1}{\varepsilon}\right)^{-\frac{1}{2}} .$$

The author mentions S.N.Bernshteyn.
There are 6 references, 3 of which are Soviet, and 3 Swedish.

SUBMITTED: November 17, 1958

Card 2/2

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOV, N.A.

Strengthening Lozinskii - Kharshiladze's theorem on polynomial approximations. Dokl. AN SSSR 143 no.1:53-55 Mr '62. (MIRA 15:2)

1. Predstavleno akademikom S.N.Bernshteynom.
(Polynomials)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOV, N.A.

Norms of linear polynomial operators. Dokl. AN SSSR 143 no.6: 1286-1288 Ap '62. (MIRA 15:4)

1. Predstavleno akademikom V.I.Smirnovym.
(Operators (Mathematics)) (Functions, Continuous)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOV, N.A.

Evaluation from below of the approximation of continuous functions by linear positive operators. Vest. LGU 17 no.19:49-55 '62. (MIRA 15:10)

(Functions, Continuous)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOV, N.A., doktor fiziko-matem. nauk, prof.; ZOLOTNIKOV, I.M., kand.tekhn.nauk, dotsent; SYSOYEV, P.V., aspirant

Investigating the shape of rolling stock wheel surfaces processed by the method of face milling. Sbor.trud. LIIZHT no.197:58-70 '62. (MIRA 16:8)

(Car wheels—Testing)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOV, N.A.

Norms of linear polynomial operators in relation to problems of approximation of continuous functions. Part 2. Vest. LGU 19 no.19:72-75 '64. (MIRA 17:11)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOV, N.A.

Norms of linear polynomial operators in connection with problems of the approximation of continuous functions. Vest. LGU 19 no.13:53-68 '64 (MIRA 17:8)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

KA[illegible]; PANCHENKO, A.A.; SAPOGOV, N.V.; TROFIMOVA, L.I.

Sorption of metal ions by carboxyl base exchanging compounds in the form of hydrogen. Izv. vys. ucheb. zav.; tavet. met. 8 no.5:43-48 '65. (MIRA 18:10)

1. Ural'skiy politekhnicheskiy institut.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SOBOLEVA, T.A.; SUSLOV, A.P.; SAPOGOV, N.V.

Fractional reaction for thorium and uranium ions. Trudy Ural.politekh. inst.no.121 71-75 '62. (MIRA 16:5)

(Thorium--Analysis) (Uranium--Analysis)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

L 08457-67 EWT(m)/EWP(j) DS/WW/RM

ACC NR: AP6030901 (N) SOURCE CODE: UR/0080/66/039/008/1793/1798

31
B

AUTHOR: Kazantsev, Ye. I.; Sapogov, N. V.

ORG: Ural Polytechnic Institute imeni S. M. Kirov (Ural'skiy politekhnicheskiy institut)

TITLE: Sorption of certain metal ions by phosphorylated cellulose

SOURCE: Zhurnal prikladnoy khimii, v. 39, no. 8, 1966, 1793-1798

TOPIC TAGS: sorption, cation, ion exchange, cellulose plastic

ABSTRACT: The sorption of various metal ions from nitric acid solutions was studied at 16-18°C, using a phosphorylated cellulose cation exchanger. The latter is shown to sorb ions of bismuth, tin (II), iron (III), thorium, aluminum and beryllium from their nitric acid solutions in amounts exceeding the exchange capacity, and ions of cerium (III), copper, nickel and magnesium in amounts comparable to the exchange capacity of the cation exchanger. It was found that the high sorbability of Bi, Fe, Sn(II), Th, Al and Be ions from solutions with HNO_3 concentrations less than 0.5-1 N is due to their sorption in the form of hydroxo complexes. The sorbability values obtained for the metal ions are best accounted for by assuming that they sorbed in the form of the respective complexes $Th[(OH)_3Th]_n^{(4+n)}$ and $Th[(OH)_4Th]_n^{4+}$, $Bi[(OH)_3Bi]_n^{3+}$, $Fe[(OH)_2Fe]_n^{(3+n)+}$ and $Fe[(OH)_3Fe]_n^{3+}$, $Sn[(OH)_2Sn]_n^{2+}$, $Al[(OH)_3Al]_n^{3+}$ and $Be[(OH)_2Be]_n^{2+}$. Thorium ions are sorbed from 0.5-3 N HNO_3 in the form of the complexes $Th(NO_3)_2^{2+}$ and

Card 1/2 UDC: 541.183+661.728

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

L 08457-67

ACC NR: AP6030901

$Th(NO_3)_3^+$. The sorption of ions by phosphorylated cellulose from 0.5-2 N HNO_3 solutions increases with increasing capacity of the ions to form sparingly soluble or stable phosphate complexes with the phosphate groups of the cation exchanger. The use of phosphorylated cellulose is recommended for removing Bi, Sn(II), Fe, Al and Be ions from ions of other metals. Orig. art. has: 4 figures and 1 table.

SUB CODE: 07/ SUBM DATE: 14Jul64/ ORIG REF: 013/ OTH REF: 006

Card 2/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

L 10876-67 EWT(1) SCTB DD

ACC NR: AP6035943 (N) SOURCE CODE: UR/0413/66/000/020/0204/0204

INVENTOR: Tyurin, V. I.; Klepatskiy, A. G.; Kolyadina, L. A.; Kitayev, Yu. V.; Sapogov, S. V.

ORG: none

TITLE: Breathing device for divers working at constant depths. Class 65, No. 187553

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 204

TOPIC TAGS: water, air, respirator, diving mask, naval physiology

ABSTRACT: An Author Certificate has been issued for a breathing device for divers working at constant depths. It consists of a housing with a mask and inhaling and exhaling valves; it is connected to the breathing bag of the device regulating the required gas volume. The breathing bag has a bleeder valve joined to a regenerative cartridge containing a chemical substance, and to a cartridge containing a chemical absorbent. To insure that the diver can remain under water at constant depths for a long period, the component regulating the required gas

UDC: 629.128.2/7 614.894

Card 1/2

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

L 10376-67
ACC NR: AP6035943

volume in the breathing bag is in the form of a housing with channels. The housing is joined to the exhalation tube by a regenerative cartridge and a cartridge containing a chemical absorbent. The housing contains a valve rest contacting an elasticized membrane mounted inside the housing and attached to the elastic walls of the breathing bag by flexible trip rods. The housing automatically distributes the flow of exhaled gas to the regenerative and absorbent cartridges. Orig. art. has: 1 figure. [Translation] [N-67-2]

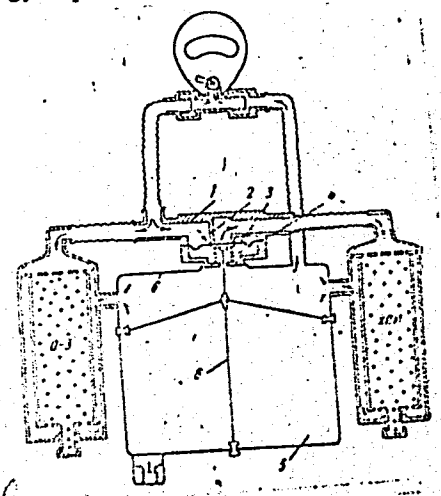

Fig. 1. Breathing device for divers. 1—Housing of device regulating required gas volume; 2—valve rest; 3—membrane; 4—spring; 5—breathing bag; 6—elastic trip rods

SUB CODE: 06/SUBM DATE: 13Jan65/

Card 2/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

LEYN, S.; SOLOVEY, M.; SAYDASHEV, G.; SAPOGOVA, A.; STOROZHENKO, G., red.

[Introduction of the continuous line method for the processing of fabrics in the finishing workshops of the "Rigas tekstils" Woolen and Worsted Factory. Application of ultrasonic waves in the cooking of oil lacquer for leather manufacture. [By]G.Saidashev. Improving the quality of chrome leather straps for the drafters of spinning machinery. [By] A.Sapogova] Vnedrenie lentochnogo metoda obrabotki tkani v otdelochnom proizvodstve na kamvol'no-sukonnoi fabrike "Rigas tekstils." Primenenie ul'trazvuka v tekhnologii varki maslianogo laka dlia kozhevennogo proizvodstva. [By] G.Saidashev. Povyshenie kachestva khromovykh remeshkov dlia vytiazhnykh priborov priadil'nykh mashin; legkaia promyshlennost'. [By] A.Sapogova. Riga, TSentr. biuro tekhn. informatsii, 1962. 13 p. (MIRA 17:10)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOVA, A. A.

"Spotted Diseases of Canker-Resistant Potato Varieties and the Development of Measures to Control Them in the Belorussian SSR." Cand Agr Sci, Department of Biological and Agricultural Sci, Acad Sci Belorussian SSR, Minsk, 1953. (RZhBiol, No 7, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOVA, A.A.

N

USSR / Plant Diseases. Diseases of Cultivated Plants.

Abs Jour : Ref Zhur - Biologiya, No 16, 25 Aug 57, 69542

Author : Sapogova, A.A.
Title : The Effect of Vernalization and Planting Periods on Destruction of Tumor-Resistant Potato Varieties by Phytofluorosis and Other Diseases.

Orig Pub : Sb. nauch . tr. In-ta sots. s. kh. AN BSSR, 1956, No 4, 231-239.

Abstract : The experiments were conducted on mineral soil in the Botanical garden, Academy of Sciences, Byelorussian SSR and on the marshy-turfy soil of Minsk marsh scientific-experimental station from 1949 to 1951. The vernalization and early planting (the first 10 days of May) of early-and-medium-ripening tumor-resisting types of potatoes markedly lowered their destruction by phytofluorosis. The increase of yield on early plantings by vernalized bulbs in mineral soils of the Majestic variety constituted 30 centners/hectare, and

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOVA, A.M.

Twist setting of French spun yarn. Izv. vys. ucheb. zav.; tekh. tekst. prom. no.4:51-55 '65. (MIRA 18:9)

1. Latviyskiy kompleksnyy nauchno-issledovatel'skiy institut legkoy promyshlennosti.

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

T-7

USSR/Human and Animal Physiology - Digestion.

Abs Jour : Ref Zhur - Biol., No 7, 1958, 31793

Author : Sapogovskaya, T.I.
Inst :
Title : Influence of Sodium Fluoride on the Accumulation of Radio Isotopes P32 and Ca^{45} in Teeth.

Orig Pub : Tr. Ykr. in-ta stomatol., 1957, vyp. 2, 40-45.

Abstract : No abstract.

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APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOVSKAYA, T.I., Cand Biol Sci -- (diss) "Certain biochemical and physiological indicators in the teeth in local action with sodium fluoride (Accumulation of P^{32} and Ca^{45} radioisotopes, action of phosphatase in the teeth, and the solubility of enamel in acids)." Odessa, 1958, 11 pp (Min of Higher Education UkSSR. Odessa State Univ im I.I. Mechnikov) 100 copies (KL, 23-58, 104)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOGOVSKAYA, T.I.

Using P^{32} and Ca^{45} in studying mineral metabolism of the periodontium and teeth in healthy animals and those with pyorrhea alveolaris. (MIRA 11:3)
Stomatologiia 37 no.1:22-26 Ja-F '58.

1. Iz biokhimicheskogo otdela (zav. - kandidat meditsinskikh nauk Yu.A.Petrovich) Ukrainskogo nauchno-issledovatel'skogo instituta stomatologii (dir. - starshiy nauchnyy sotrudnik M.I.Kukhareva)
(MINERAL METABOLISM) (GUMS--DISEASES)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

PODOROZHNAYA, R.P. (Odessa); SAPOGOVSKAYA, T.I. (Odessa)

Age-related changes in the nitrogen content of the parotid gland saliva. Probl.stom. 6:66-72 '62. (MIRA 16:3)
(PAROTID GLANDS) (NITROGEN IN THE BODY) (SALIVA)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

PETROVICH, Yu.A. (Odessa); SAPOGOVSKAYA, T.I. (Odessa); KONOVETS, V.M. (Odessa); PODOROZHNAYA, R.P. (Odessa); TRIFONOVA, V.P. (Odessa)

Entry of labeled atoms into the tissues of the tooth and the paradentium. Probl.stom. 6:132-137 '62. (MIRA 16:3)
(TEETH) (ISOTOPES--PHYSIOLOGICAL EFFECT) (GUMS)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

M

USSR/Cultivated Plants. Fruits. Berries.

Abs Jour: Ref Zhur-Biol., No 5, 1958, 20481.

Author : N.V. Kovalev, D.K. Sapon
Inst : The Shreder Fruit and Berry Institute.
Title : The Problem of Methods of Evaluation for Fruit Culture Stock. (K voprosu o metodakh otsenki podvoyev u plodovykh kul'tur).

Orig Pub: Dokl. AN UzSSR, 1956, No 10, 45-49.

Abstract: To determine the compatability of stocks, the Shreder Fruit and Berry Institute in 1953 grafted simultaneously one, two, and three stocks to a single graft slip. The Sievers seedling stock with the golden winter Parmen graft (I) produced a sturdy intergrowth of the components and developed uniformly with each other; at the end of the second year the growth of the skeleton and overgrowing roots

Card : 1/2

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

USSR/Cultivated Plants. Fruits. Berries. M

Abs Jour: Ref Zhur-Biol., No 5, 1958, 20481.

showed a fair increase. The dusen and paradise stock with graft I yielded a sturdy coalescence, although the roots of these stocks are activated later than the stock of Sievers apple seedlings. The stock of turkman apple runners with graft I coalesced solidly, but at the end of the second year of growth only fibril roots developed, no tap root growth occurred. With double or triple graftings to a single graft, Sievers apple stock and one or two roots of dusen or paradise stock were grafted. The growth and development of the underground plant mass with double or triple graftins is ordinarily better than with a single stock, the acclimatization of the graft with two or three stocks being 25-40% higher than with a single stock of the same species.

Card : 2/2

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAVON, I.P.; GLAZMAN, Yu.M.

Effect of nonionogenic surface-active agents on the stability of lyophobic sols. Part 2: Coagulation of a colloidal solution of silver iodide. Koll. zhur. 27 no.4:601-604 Jl-Ag '65. (MIRA 18:12)

1. Tekhnologicheskiy institut legkoy promyshlennosti, Kiyev. Submitted April 1, 1964.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

GLAZMAN, Yu.M.; KRASNOKUTSKAYA, M.Ye.; SAPON, I.P.

Coagulation zones in the course of action of surface-active agents on hydrophobic sols. Koll. zhur. 27 no.2:290 Mr-Ap '65. (MIRA 18:6)

1. Tekhnologicheskiy institut legkoy promyshlennosti, Kiyev.

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

S/081/62/000/001/060/067
B162/B101

AUTHORS: Sapon, M. F., Dorogochinskiy, A. Z.

TITLE: Thermal stability of distillates of various origins

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 1, 1962, 449, abstract 1M182 (Tr. Groznensk. neft. n.-i. in-t, no. 11, 1961, 38 - 52)

TEXT: The 50°C thermal stability of 150-200°C, 200-250°C, 250-300°C and 300-350°C fractions separated from a non-sulfur Groznyy paraffin-base petroleum mixture, an Eastern sulfur petroleum mixture and from the mazut thermal cracking products of these types of petroleum on semi-industrial GrozNII apparatuses with columns having 28 theoretical plates, was investigated on an ЛСА (LSA) apparatus. The thermal stability was evaluated from the quantity of residue and resin in the fractions after oxidation. The catalytic action of metals (electrolytic copper, 12Х(Н3А(12KhN3A) steel and БГ-24 (VB-24) bronze) on the oxidation process was demonstrated. It is shown that for narrow rectified and cracking fractions of non-sulfur and sulfur petroleum the principles determining the quantity of residue forming during oxidation cannot be explained by the content of unsaturated hydro-

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Thermal stability of...

carbons, resins or sulfur compounds in the initial fractions. The magnitude of the resin content in the oxidized fractions is greatly affected by the quantity of resinous substances contained in the fractions, the oxidation temperature and the catalytic action of the metals. Sulfur compounds stimulate resin formation. [Abstracter's note: Complete translation.]

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

AMERIK, B.K.; MAYDEBOR, L.K.; SVETOZAROVA, O.I.; ROMANKOVA, I.K.; SAPON, M.F.; MUTOVIN, Ya.G.; ZHDANOVA, V.V.; LEVASHOVA, E.P.; GOLOVENKO, A.M.; KOZLOVA, A.S.

Refining sour mazuts. Trudy GrozNII no. 15:42-48 '63.
(MIRA 17:5)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

AMERIK, B.K.; MAYDEBOR, L.K.; SVETOZAROVA, O.I.; MATAYEVA, B.V.; ROMANKOVA, I.K.; GOLOVENKO, A.M.; SAPOON, M.F.; ZHDANOVA, V.V. LEVASHOVA, E.P.; KOZLOVA, A.S.; ZINOV'YEV, V.R.; KONINA, V.F.; MUTOVIN, Ya.G.

Refining sweet mazuts. Trudy GrozNII no. 15:49-58 '63. (MIRA 17:5)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

AMERIK, B.K.; MUTOVIN, Ya.G.; SAPON, M.F.; KUNDRYUTSKAYA, N.Kh.

Pilot plant for the two-stage destructive vacuum distillation of oil residues. Trudy GrozNII no. 15:59-67 '63. (MIRA 17:5)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

Sapondzyan, O. M. Applicati
tional reactions to the solutic
of plates, the plane problem
or prismatic bars. Akad. N
13, 501–512 (1949). (Russ
The paper contains several
boundary value problems in
culture termed by the author
reactions." The method depen
able to a particular problem
essence of the idea is to replace
boundary value problem by
region whose boundary, in gar
one, and introduce in the se
auxiliary parameters in order
dition of the original problem
to the problem of small
circular plate under a uniform
of the plate. The clamping o
circle introduces unknown
clamped circular plate
one, which is subjected to
of load of intensity q
coincides with the y-axis
distribution q is taken in the
solution for the deflection
$w = w(x, y; q_m)$, where the
rameters can be selected
$\partial w(0, y)/\partial x = 0$. The fun
condition of clamping along
in the original problem
plate deflection problem
angle with a slit, and the
semicircle fixed rigidly along
a uniform radial pressure

Source: Mathematical Reviews, Vol. 11 No. 4

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPONDZHYAN, O. M. Doc Tech Sci

Dissertation: "Certain Problems in the Theory of Bending Thin Plates." 14/2/50

Central Sci Res Inst of Industrial Constructions - "TsNIPS".

SO Vecheryaya Moskva
Sum 71

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPONDZHYAN, O.M.

Bending of a polygonal plate with free support. Izv.AN Arm.SSR. Ser.FMET nauk 5 no.2:29-46 '52. (MLRA 9:8)

1. Yerevanskiy politekhnicheskiy institut imeni K. Marksa.
(Elastic plates and shells)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPONDZHYAN, O.M.

1-F/W

Sapondžyan, O. M. Bending of an elliptic plate. Akad. Nauk Armyan. SSR. Izv. Fiz.-Mat. Estest. Tehn. Nauki 7, no. 5, 19–43 (1954). (Russian. Armenian summary)

The problems concerned with small transverse deflections of a clamped isotropic elliptic plate are solved for the following types of loading: a) A uniform load distributed over the area of an ellipse confocal with the given ellipse bounding the plate; b) a uniform load distributed over the area of a circle whose center coincides with the center of the ellipse; c) a uniform line load distributed at only one of the principal diameters of the ellipse. The method of solution is that used by N. I. Muskhelishvili [Some basic problems of the mathematical theory of elasticity, 3rd ed., Izdat. Akad. Nauk SSSR, Moscow, Leningrad, 1949 (1953), § 64; MR 11, 626; 15, 370] to solve the plane problems of elasticity for an elliptical region.

I. S. Sokolnikoff (Los Angeles, Calif.).

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPONDZHYIN, O.M. ✓
SAPONDZYAN, O.M.

Sapondžyan, O. M. Bending of a semi-elliptic plate. Akad. Nauk Armyan. SSR. Izv. Fiz.-Mat. Estest. Tehn. Nauki 7 (1954), no. 6, 27–34 (1955). (Russian. Armenian summary) I-F/W 113

This is an improvement on Galerkin's solution of the problem of small transverse deflections of a uniformly loaded semi-elliptic plate clamped along its curvilinear boundary and simply supported along the rectilinear boundary [Elastic thin plates, Gosstrolizdat, Leningrad-Moscow, 1933, pp. 340–343]. Since the deflections of a clamped elliptic plate carrying a uniform load p above its principal diameter and $-p$ below the diameter are the same as in the problem treated by Galerkin, the method of solution employed by the author in the paper reviewed above is applicable. The formulas deduced by him are more tractable than Galerkin's. *I. S. Sokolnikoff.*

Yerevan Polytech Inst.

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPONDZHYAN, O.M.

Bending of a fastened plate subjected to loads uniformly distributed on a circular area. Izv. AN Arm. SSR. Ser. FMET nauk. 9 no.5:61-75 '56. (MLRA 9:11)

1. Yerevanskiy politekhnicheskiy institut imeni K. Marksa.
(Elastic plates and shells) (Flexure)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPONDZHYAN, O.M.

Series development of the Christoffel-Schwarz mapping functions. Izv. AN ARM.SSR.Ser.FMET nauk 9 no.9:97-104 '56. (MLRA 10:2)

1. Yerevanskiy politekhnicheskiy institut imeni K.Marksa.
(Functions of complex variables)

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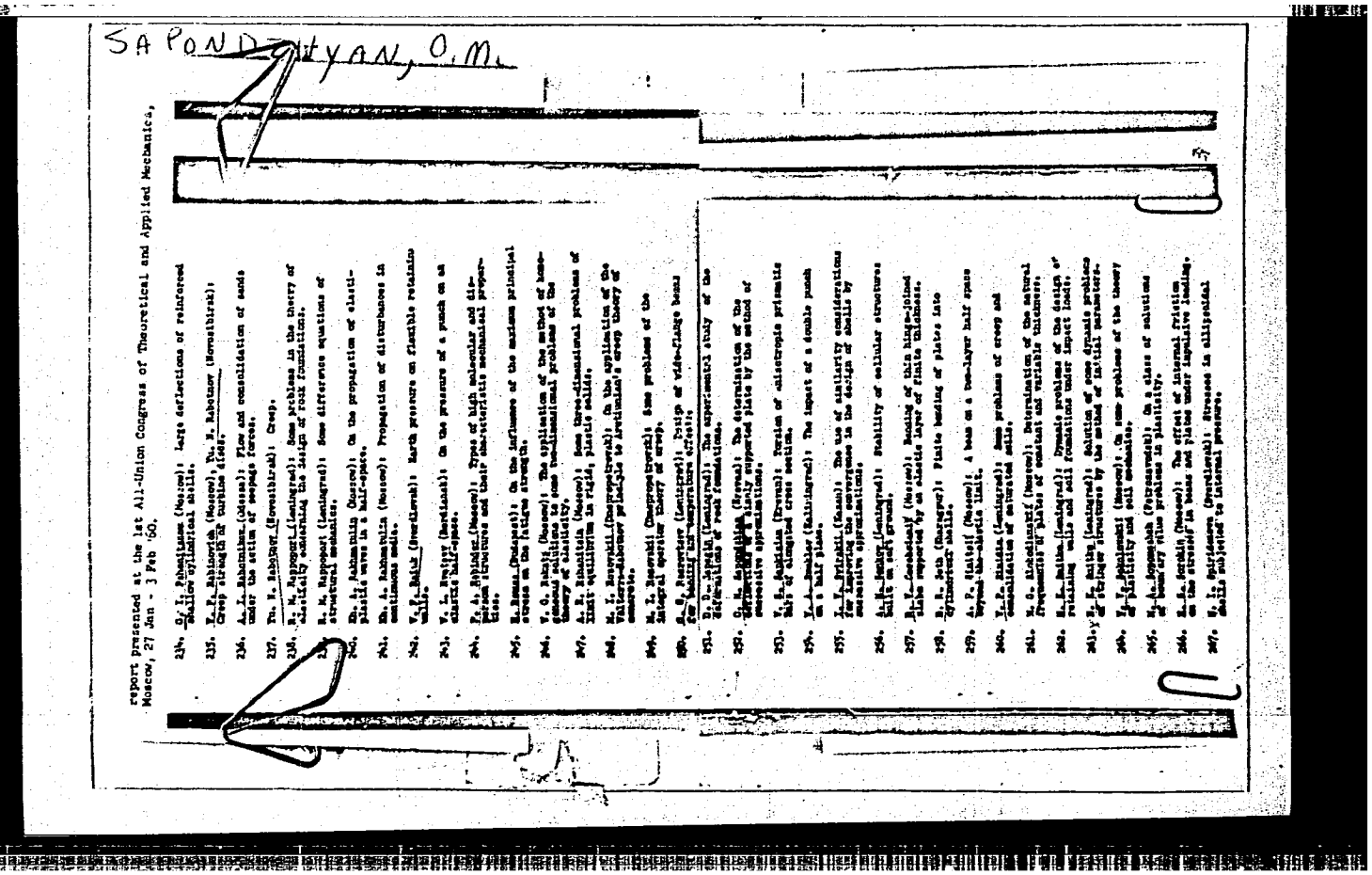
"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4



SA POND Gityan, O. M.

report presented at the 1st All-Union Congress of Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb '60.

234. G. I. Pshenitsyn (Moscow): Large deflections of reinforced shallow cylindrical shells.

235. R. A. Abkiorth (Moscow), Yu. N. Rabotnov (Novosibirsk): Creep strength of turbine disks.

236. A. A. Khamidov (Odessa): Flow and consolidation of sands under the action of surface forces.

237. Yu. N. Rabotnov (Novosibirsk): Creep.

238. S. M. Bapport (Leningrad): Some problems in the theory of elasticity concerning the design of rock foundations.

R. M. Bapport (Leningrad): Some difference equations of structural mechanics.

Kh. A. Rakhmatulin (Moscow): On the propagation of elasto-plastic waves in a half-space.

Kh. A. Rakhmatulin (Moscow): Propagation of disturbances in continuous media.

V. V. Sokolovskiy (Sverdlovsk): Earth pressure on flexible retaining walls.

V. A. Kudryavtsev (Kuybyshev): On the pressure of a punch on an elastic half-space.

F. A. Baklanov (Moscow): Types of high molecular and dispersed structures and their characteristic mechanical properties.

A. Yu. Ishlinskiy (Moscow): On the influence of the maximum principal stress on the fatigue strength.

N. N. Davidenkov (Leningrad): Some problems of the theory of plastic flow.

V. G. Zubov (Moscow): The application of the method of boundary elements to some fundamental problems of the theory of elasticity.

A. R. Rzhanitsyn (Moscow): Some three-dimensional problems of the theory of elasticity.

M. I. Rozovskiy (Dnepropetrovsk): On the application of the Volterra-Abramov principle to Arutyunyan's creep theory of concrete.

N. Kh. Arutyunyan (Leningrad): Some problems of the theory of creep.

A. Yu. Ishlinskiy (Moscow): Tests of wide-flange beams for ability to withstand torsion effects.

D. D. Ivlev (Leningrad): The experimental study of the deformation of real foundations.

G. K. Klyushnikov (Moscow): The determination of the stress-strain state of elastically supported plates by the method of successive approximations.

K. K. Kudriavtsev (Perm): Torsion of anisotropic prismatic bars of complicated cross section.

V. I. Rozhdestvenskiy (Leningrad): The impact of a double punch on a half plane.

I. A. Prigozhin (Kazan): The use of similarity considerations for improving the convergence in the design of shells by successive approximations.

A. M. Freudenthal (Leningrad): Stability of cellular structures built on soft ground.

B. Ye. Pobedrya (Moscow): Bending of thin ring-joined plates reduced by an elastic layer of finite thickness.

P. M. Ogibalov (Kuybyshev): Plate bending of plates into stress-strain shells.

A. P. Filatov (Moscow): A beam on a two-layer half space beyond the elastic limit.

V. D. Klubin (Leningrad): Some problems of creep and consolidation of saturated soils.

N. G. Khrapkovskiy (Moscow): Determination of the natural frequencies of plates of constant and variable thickness.

B. L. Baidin (Leningrad): Dynamic problems of the design of retaining walls and soil foundations under impact loads.

P. P. Belyy (Leningrad): Solution of some dynamic problems of regular structures by the method of initial parameters.

I. Ya. Shtaerman (Moscow): On some problems of the theory of plasticity and soil mechanics.

N. N. Davidenkov (Petrozavodsk): On a class of solutions of boundary value problems in plasticity.

R. Ye. Pershin (Moscow): The effect of internal friction on the strength in beam and plates under impulsive loading.

S. Fairbairn (Pennsylvania): Stresses in elliptical cells subjected to internal pressure.

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

S/124/63/000/002/028/052
D234/D308

AUTHOR: Sapondzhyan, O.M.

TITLE: Application of Saint-Venant's principle to the solution of the problem of the theory of elasticity

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 2, 1963, 13-14, abstract 2V83 (Sb. nauchn. tr. Yerevansk. politekhn. in-t. Yerevan, 1960, 273-281)

TEXT: For an approximate solution of the problem of elastic bending of thin plates supported along the edge, the author sets out a form of deflection satisfying the equation of bending and the boundary condition w = 0. The static boundary condition is approximately satisfied on the basis of Saint-Venant's principle: the boundary of the plate is divided into n segments on which the conditions of resultant moments becoming zero are formulated. Indeterminate constants are introduced into the solution in order to satisfy these conditions. Solutions with two constants are obtained for a rectangular and an elliptic plate subject to constant pressure. A similar

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Application of Saint-Venant's ...

method is applied to the problem of torsion, in which the corresponding integral boundary conditions on the segments of the boundary have the form

$$\int \frac{\partial \varphi}{\partial s}\, ds = 0, \quad \int x \frac{\partial \varphi}{\partial s}\, ds = 0, \quad \int y \frac{\partial \varphi}{\partial s}\, ds = 0$$

where φ is the stress function.
[Abstracter's note: Complete translation]

Card 2/2

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPONDZHYAN, O.M.

Upper and lower bound approximations for the problem concerning the bending of a supported plate. Dokl. AN Arm. SSR 35 no.4:161-165 '62. (MIRA 17:1)

1. Chlen-korrespondent AN Armyanskoy SSR. Yerevanskiy politekhnicheskiy institut imeni K. Marksa.

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPONDZHYAN, O.M.

Flexure of a thin rectangular plate. Dokl. AN Arm. SSR no.3:137-141 '63. (MIRA 17:1)

1. Yerevanskiy politekhnicheskiy institut imeni K.Marksa. Chlen-korrespondent AN Armyanskoy SSR.

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPONDZHYAN, S. O.

Sapondzhyan, S. O. - "Toward the derivation of double secondary acetylene glycols," Report 3, Izvestiya (Akad. nauk Arm. SSR), Fiz.-Matem., yestestv. i tekhn. nauki, 1948, No. 3, p. 269-73 — Summary in Armenian —— Bibliog: p. 272

So: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 13, 1949)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPONDZHYAN, S.O.

USSR

Determination of acetals in wine. S. O. Saponidzhyan and Kh. S. Gevorkyan. *Vinodelie i Vinogradarstvo S.S.S.R.* 13, No. 1, 13-15(1953).—From a neutral wine soln. free aldehydes are removed by direct distn. and bound aldehydes are removed after hydrolysis with 0.1*N* HCl. In the presence of a high amt. of ale. (30-60%) the hydrolysis rate of acetals is increased. For the analysis of fresh wine 1 ml. of 0.1*N* HCl and 5-min. hydrolysis are sufficient; when wine contains 10-500 mg. acetals/l. 10-15 ml. of the acid and 10-15 min. hydrolysis time are required.
I. Werbicki

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPONDZHYAN, S.O.

USSR.

Effect of heavy metals on the process of the formation of sherry wine. S. O. Sapondzhyan and Kh. S. Gevorkyan. *Vinodelie i Vinogradarstvo S.S.S.R.* 13, No. 11, 18-22 (1953).—The effects of Fe and Cu were studied on the formation of sherry wines. From 7.2 to 25 mg./l. of $FeCl_3$ (I), $Fe_2(SO_4)_3$ (II), $FeSO_4$ (III), $(NH_4)Fe$ citrate (IV), $CuSO_4$ (V), and a mixt. of III and V were added to wine before the addn. of sherry yeasts, and the chem. compn. and organoleptic properties of the wine were then studied. Wine with added Fe^{+++} contained increased amts. of aldehydes (950 and 828 mg./l. after the addn. of 12 and 25 mg./l. either I or II, resp.). The control contained 503 mg. aldehydes/l. With 12 mg./l. of III (Fe^{++}), the aldehydes increased to 893 mg./l. A similar effect was obtained by adding Cu^{++}. Wine to which 10 mg. V and 12 mg. III/l. were added contained 825 mg. aldehydes/l. more than the control; no particular effect was noticed in the case of IV. The highest amt. of acetals (168–171; control 126 mg./l., resp.) was present in the samples with 3.6 and 7.2 mg. V/l. added. In the presence of I and IV the amt. of acetals was lower as compared with the control. Org. esters in all expil. samples increased over the control (150 mg./l.). Addn. of I, II, III, and V, as well as demetallization of the wine, increased the pH from 3.55 (control) to 3.8–3.0, while IV increased it to 5.44. Only the addn. of IV increased the titratable acidity (9.1–7.2, control 3.7 g./l., resp.). The amt. of alc. in all cases decreased to 14.6–14.8 vol. % (control 15.05%). In the presence of Fe^{+++} and Cu^{++} the oxidation-reduction potential increased first and then gradually decreased; in the presence of Fe^{++} and IV it decreased from the beginning of the expt. In all cases the wine quality was improved; it is particularly true in the case of the Cu^{++} addn.

E. Wierbicki

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

BASKAKOV, Yu.A.; SAPOROVSKAYA, M.B.

New method of quantitative determination of 4-chlorobutynyl ester of the N-3-chlorophenylcarbamic acid. Khim. prom. no.10:46-47 O '61. (MIRA 15:2)

(Carbamic acid)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

YUR'YEV, Yu.K.; MEZENTSOVA, N.N.; SAPOROVSKAYA, M.B.

Chemistry of selenophene. Part 37: Synthesis of 5-(2'-selenienyl) pyrazoles substitutes in the position-3. Zhur.ob.khim. 32 no.5: 1444-1446 My '62. (MIRA 15:5)

1. Moskovskiy gosudarstvennyy universitet.
(Selenium compounds) (Pyrazole)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

VIRT, Ye.V.; [illegible]KAYA, M.B.; BELIKOV, V.M.

Analysis of amino acids by the capillary chromatography. Izv. AN SSSR. Ser.khim. no. 5:947-948 My '64. (MIRA 17:6)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

NITULESCU, I., ing.; MOCANU, Ana, ing.; FILIPEANU, Livia, ing.; ANGHEL, Lucia, geolog; SAPORTA, Ecaterina, ing.

Quantitative mineralogical analysis of technological ore tests. Rev min 15 no.11:595-601 N '64.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOSHNIKOV, L.K.

USSR/Scientific Organization--Conferences

Card 1/1 Pub. 86--10/35

Authors : Dement'ev, G. P.; Kumari, E. V.; and Saposhnikov, L. K.

Title : The work of Soviet ornithologists

Periodical : Priroda 44/1, 67--69, Jan 1955

Abstract : A account is given of the Second Conference of Ornithologists held in May of 1954 at the Tallin Institute of Zoology and Botany of the Academy of Sciences of the Estonian SSR. Various papers were read, the principle theme being the migration of birds and a study of the habits of birds with a view to solving some problems affecting the people's economy.

Institution : .....

Submitted : .....

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOSHNIKOVA, S. A. and TERENTYEVA, T. M.

"On the Exactness of Complex Climatic Characteristics et. for different Periods." In Book - Works of the Scientific Research Institute on Aeroclimatology, published by Hydrometeorology Publsihing House, Moscow, 1958.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

YEVSEYEV, P. K. and SAPOSHNIKOVA, S. A.

"Knowledge of the Characteristics of Climate as it Effects the Growth Period of Corn and Wheat," In Book - Works of the Scientific Research Institute on Aeroclimatology, publsihed by Hydrometeorology Publishing House, Moscow, 1958.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOSNIC, A.; LEON, Ianescu

The therapeutic effect of parenteral administration of Olanesti water on some allergic skin diseases. Med. int., Bucur. 7 no.4: 149-150 Oct-Dec 55.

1. Institutul de Endocrinolog. Prof. C. I. Parhon.
(SKIN DISEASES, therapy
Olanesti spring water, in allergic disord.)
(MINERAL WATER, ther. use
Olanesti spring water in allergic skin dis.)

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

POPESCU, I. Gr.; SAPOSNIC, A.; FISCHER, P. S.; SIMIONOVICI, B.

Trial therapy of epidemic hepatitis. Probl. ter., Bucur. 3: 213-229 1956.

(HEPATITIS, INFECTIOUS, therapy
dimercaprol, mineral water & vitamin B 12.)
(DIMERCAPROL, ther. use
hepatitis, infect.)
(MINERAL WATER, ther. use
hepatitis, infect.)
(VITAMIN B 12, ther. use
hepatitis, infect.)

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOSNIC AL

2

The action of isotonic sulfurous water on the functions of the adrenal gland. St. M. Milcu, and Al. Saposnic. *Comun. acad. rep. populare Romîne* 6, 341–8(1956).—In acute expts. the intraperitoneal injection of 2.5 cc. of sulfurous water in rats weighing 100–150 g. causes a stimulation of the adrenal glands. Continued administration of the [illegible] injection also causes a considerable increase of vita- [illegible] D. This increase is not the result of an accumula- [illegible] I, but represents an intensification in the synthesis of I by the adrenal cortex. The increase in the synthesis of I takes place through stimulation of the liver. E. M.

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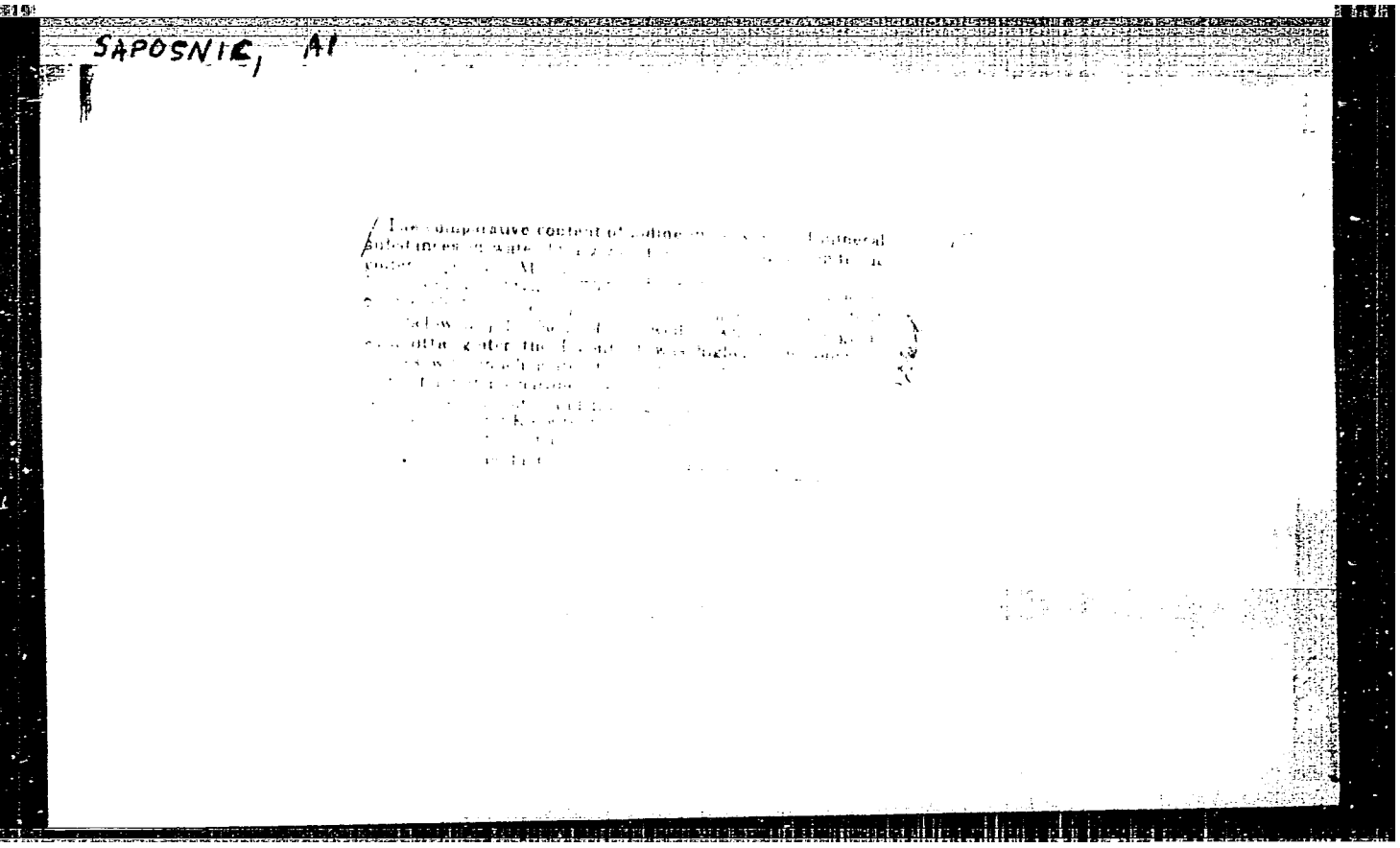

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOSNIC, A.

SAPOSNIC, A. Modification of the immunological reactivity under the influence of thyroxine and iodinated proteins. p. 839. Vol. 6, no. 6, June 1956. COMUNICARILE. Bucuresti, Rumania.

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOSNIC, A,

The influence of iodated casein on albuninous fractions in the serum of rabbits inoculated with antityphoid paratyphoid vaccine.

P. 1389 (Academis Republicii Populare Romine. Comunicarile. Vol. 6, no.12, Dec. 1956 Bucuresti, Rumania)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2, February 1958

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130007-4

SAPOSNIC, A.; CIOARA, N.; MILCU, S.

Changes of immunological reactivity in hens treated with iodoprotein, p. 903.

COMUNICARILE. Bucuresti, Rumania, Vol. 7, no. 10, October 1957.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 8, Aug. 1959.

Uncl.

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SAPOSNIKOV, G. V.

H-32

COUNTRY : Czechoslovakia
CATEGORY :

ABS. JOUR. : RZKhim., No. 21 1959, No. 76936

AUTHOR : Saposnikov, G. V.
INST. : Not given
TITLE : The Dyeing of Viscose Fibers in Bulk

ORIG. PUB. : Chem Prumysl, 8, No 8, 438-442 (1958)

ABSTRACT : An investigation of the factors causing a decrease in the brightness of the color of aqueous and viscose suspensions of pigments and vat dyes used in the dyeing of viscose fibers in bulk in the presence of the mordants Invadan 1 and Erifor O has shown that the presence of the above-named mordants in the suspensions to the extent of 20-100% of the wt of the dye leads to the agglomeration of the dye particles with a resultant deterioration of the quality of the

CARD: 1/2

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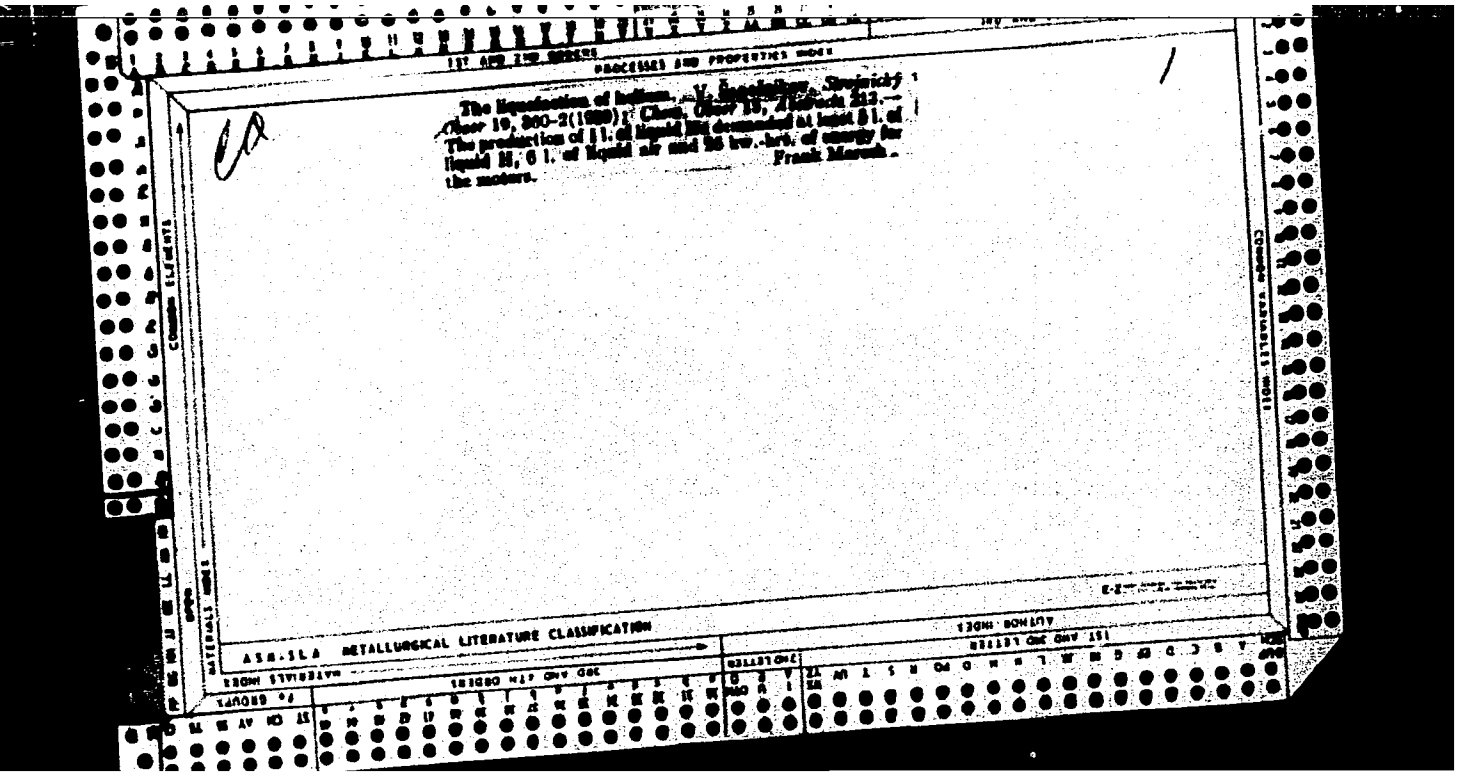

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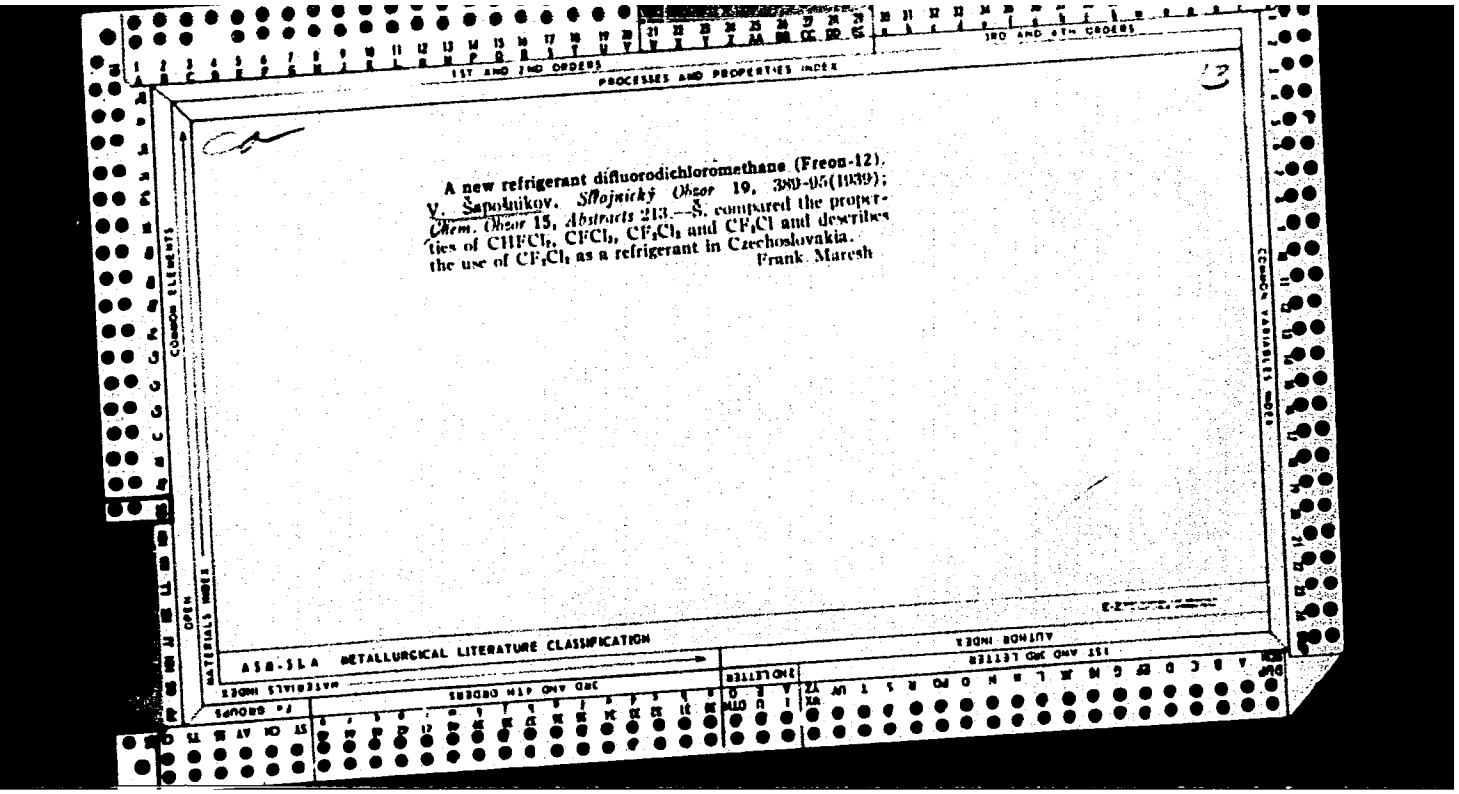

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Frank Maresh

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